

**Amendments to the Claims**

The listing of claims below is intended to replace all prior listings of claims presented in the above-identified application.

1-19. (canceled)

20. (currently amended) A kit comprising components 1) to 3):

1) a primer set consisting of four distinct oligonucleotide primers, wherein:

a the first oligonucleotide primer comprises comprising (i) a 3' 3'  
terminal nucleotide sequence that anneals to a sample single-stranded nucleic acid molecule  
and serves as the origin of synthesis for synthesizing a first single-stranded nucleic acid  
molecule complementary at least in part to the sample single-stranded nucleic acid molecule,  
and (ii) a 5' 5' terminal nucleotide sequence that is complementary to an arbitrary region of  
the first single-stranded nucleic acid molecule;

the second oligonucleotide primer comprises (i) a 3' terminal  
nucleotide sequence that anneals to the first single-stranded nucleic acid molecule prepared  
using the first oligonucleotide primer and serves as the origin of synthesis for synthesizing a  
second single-stranded nucleic acid molecule complementary at least in part to the first  
single-stranded nucleic acid molecule, and (ii) a 5' terminal nucleotide sequence that is  
complementary to an arbitrary region of the second single-stranded nucleic acid molecule;

a second the third oligonucleotide primer comprises comprising a  
nucleotide sequence which anneals to a region of the sample single-stranded nucleic acid  
molecule, wherein said region is located 3' 3' to a region where the first oligonucleotide  
primer anneals thereto and outside of a region between (a) the region where the first  
oligonucleotide primer anneals and (b) a region consisting of a nucleotide sequence identical  
to the 3' terminal nucleotide sequence of the second oligonucleotide primer; and

a third oligonucleotide primer comprising (i) a 3' terminal nucleotide  
sequence that anneals to the first single-stranded nucleic acid molecule prepared using the  
first oligonucleotide primer and serves as the origin of synthesis for synthesizing a second  
single-stranded nucleic acid molecule complementary at least in part to the first single-  
stranded nucleic acid molecule, and (ii) a 5' terminal nucleotide sequence that is  
complementary to an arbitrary region of the second single-stranded nucleic acid molecule;

the fourth oligonucleotide primer comprises a nucleotide sequence  
which anneals to a region of the first single-stranded nucleic acid molecule, wherein said

region is located 3' to a region where the second oligonucleotide primer anneals and outside of a region between (c) the region where the second oligonucleotide primer anneals and (d) a region consisting of the 3' terminal nucleotide sequence of the first oligonucleotide primer;

2) a DNA polymerase having strand displacement activity; and  
3) one or more nucleotides which are used by the DNA polymerase to extend the primers.

21. (cancelled)

22. (currently amended) The kit according to claim 20 further comprising: a detector for detection of a product of nucleic acid synthesis prepared using the ~~remaining~~ components of the kit.

23-53. (canceled)

54. (currently amended) A method of synthesizing a nucleic acid molecule comprising:

A) mixing the following components 1) to 3) with sample nucleic acid as a template:

1) a primer set consisting of four distinct oligonucleotide primers, wherein:

a the first oligonucleotide primer comprises comprising (i) a 3' 3' terminal nucleotide sequence that anneals to a sample single-stranded nucleic acid molecule and serves as the origin of synthesis for synthesizing a first single-stranded nucleic acid molecule complementary at least in part to the sample single-stranded nucleic acid molecule and (ii) a 5' 5' terminal nucleotide sequence that is complementary to an arbitrary region of the first single-stranded nucleic acid molecule;

the second oligonucleotide primer comprises (i) 3' terminal nucleotide sequence that anneals to the first single-stranded nucleic acid molecule prepared using the first oligonucleotide primer and serves as the origin of synthesis for synthesizing a second single-stranded nucleic acid molecule complementary at least in part to the first single-stranded nucleic acid molecule, and (ii) a 5' terminal nucleotide sequence that is complementary to an arbitrary region of the second single-stranded nucleic acid molecule;

a second the third oligonucleotide primer comprises comprising a nucleotide sequence which anneals to a region of the sample single-stranded nucleic acid molecule, wherein said region is located 3' 3' to a region where the first oligonucleotide

primer anneals thereto and outside of a region between (a) the region where the first oligonucleotide primer anneals and (b) a region consisting of a nucleotide sequence identical to the 3' terminal nucleotide sequence of the second oligonucleotide primer; and

~~a third oligonucleotide primer comprising (i) a 3' terminal nucleotide sequence that anneals to the first single-stranded nucleic acid molecule prepared using the first oligonucleotide primer and serves as the origin of synthesis for synthesizing a second single-stranded nucleic acid molecule complementary at least in part to the first single-stranded nucleic acid molecule and (ii) a 5' terminal nucleotide sequence that is complementary to an arbitrary region of the second single-stranded nucleic acid molecule;~~

~~a fourth oligonucleotide primer comprises comprising a nucleotide sequence which anneals to a region of the first single-stranded nucleic acid molecule, wherein said region is located 3' to a region where the second third oligonucleotide primer anneals thereto and outside of a region between (c) the region where the second oligonucleotide primer anneals and (d) a region consisting of the 3' terminal nucleotide sequence of the first oligonucleotide primer;~~

2) a DNA polymerase having strand displacement activity; and

3) one or more nucleotides which are used by the DNA polymerase to extend the primers; and

B) incubating the mixture at such a temperature that the nucleotide sequence constituting the first and third oligonucleotide primers can form stable base pairing pairing with the template.

55. (previously presented) The method of claim 54, wherein the mixture further comprises a regulator for melting temperature.

56. (previously presented) The method of claim 55, wherein the regulator for melting temperature is betaine.

57. (previously presented) The method of claim 56, wherein 0.2 to 3.0 M betaine is present.

58. (previously presented) The method of claim 54, wherein the mixture further comprises a detector for detection of a product formed by said mixing of step A) and said incubating of step B).

59. (previously presented) The method of claim 54, wherein the sample nucleic acid is RNA, and the DNA polymerase has reverse transcriptase activity.